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U.S. Department of the Interior • U.S. Geological Survey

# MINERAL INDUSTRY SURVEYS

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## LIME IN NOVEMBER 1996

Lime producers, operating 108 plants, sold or used about 1.59 million metric tons in November, according to the U.S. Geological Survey. This was essentially unchanged from the monthly average for the last 12 months. Lime sold by producers was about 1.39 million tons; this was 1% below the monthly average for the last 12 months. Captive lime used by 36 producers was about 201,000 tons, or 17% above the monthly average for the last 12 months.

Lime sold in November for construction uses, including soil stabilization, totaled about 138,000 tons. Sales of refractory dead-burned dolomite were about 10,500 tons. Sales of lime for environmental uses totaled about 412,000 tons. Sales to steel-or-iron-related markets were about 403,000 tons, and sales for other chemical and industrial uses totaled about 428,000 tons.

Principal lime-producing States in November 1996, in descending order, were Ohio, Alabama, Pennsylvania, Texas, and Virginia. These States accounted for 41% of the total output. Kentucky, Illinois, and Missouri were also significant producers, but specific figures were withheld to protect company proprietary data. October exports to five countries were 3,760 tons.

Reminder, after publication of the December 1996 issue of the monthly Lime Mineral Industry Surveys (MIS), the U.S. Geological Survey will discontinue collection and publication of the monthly lime statistics. The publication will be continuing on an annual basis.

TABLE 1  
LIME SOLD BY PRODUCERS IN THE UNITED STATES, BY USE 1/

(Metric tons unless otherwise noted) 2/

| Use                                 | November<br>1996 | October<br>1996 | 11 Months<br>1996 3/ | 11 Months<br>1995 |
|-------------------------------------|------------------|-----------------|----------------------|-------------------|
| Quicklime:                          |                  |                 |                      |                   |
| Construction:                       |                  |                 |                      |                   |
| Soil stabilization                  | 66,300           | 68,000 r/       | 479,000              | 351,000           |
| General construction                | 10,100           | 10,400          | 137,000              | 86,800            |
| Total                               | 76,400           | 78,400 r/       | 616,000              | 438,000           |
| Refractory dolomite                 | 10,500           | 11,100          | 147,000              | 161,000           |
| Environmental                       | 345,000          | 365,000         | 3,910,000            | 3,320,000         |
| Steel, iron related                 | 402,000          | 412,000 r/      | 4,330,000            | 4,250,000         |
| Other chemical and industrial       | 377,000          | 375,000 r/      | 4,460,000            | 4,630,000         |
| Total quicklime                     | 1,210,000        | 1,240,000       | 13,500,000           | 12,800,000        |
| Hydrate:                            |                  |                 |                      |                   |
| Construction:                       |                  |                 |                      |                   |
| Soil stabilization                  | 23,800           | 26,900          | 354,000              | 451,000           |
| General construction                | 38,000           | 46,300          | 504,000              | 505,000           |
| Total                               | 61,900           | 73,200          | 857,000              | 956,000           |
| Environmental                       | 67,200           | 72,700          | 760,000              | 698,000           |
| Steel, iron related                 | 978              | 999             | 10,400               | 32,000            |
| Other chemical and industrial       | 50,300           | 53,100          | 494,000              | 518,000           |
| Total hydrate                       | 180,000          | 200,000         | 2,120,000            | 2,200,000         |
| Total construction sales            | 138,000          | 152,000 r/      | 1,470,000            | 1,390,000         |
| Total refractory sales              | 10,500           | 11,100          | 147,000              | 161,000           |
| Total environmental sales           | 412,000          | 438,000         | 4,670,000            | 4,020,000         |
| Total steel, iron related sales     | 403,000          | 413,000 r/      | 4,340,000            | 4,280,000         |
| Total chemical and industrial sales | 428,000          | 428,000 r/      | 4,950,000            | 5,150,000         |
| Total sales of lime                 | 1,390,000        | 1,440,000       | 15,600,000           | 15,000,000        |

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ To convert metric tons to short tons, multiply metric tons by 1.10231.

3/ May include revisions to prior months' data.

TABLE 2  
CAPTIVE LIME USED BY PRODUCERS IN THE UNITED STATES, BY TYPE 1/

(Metric tons unless otherwise noted) 2/

| Use                 | November<br>1996 | October<br>1996 | 11 Months<br>1996 3/ | 11 Months<br>1995 |
|---------------------|------------------|-----------------|----------------------|-------------------|
| Quicklime 4/        | 187,000          | 171,000         | 1,660,000            | 1,810,000         |
| Hydrate             | 3,400            | 3,340           | 32,400               | 42,200            |
| Refractory dolomite | 10,600           | 12,000          | 118,000              | 133,000           |
| Total               | 201,000          | 187,000 r/      | 1,810,000            | 1,990,000         |

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ To convert metric tons to short tons, multiply metric tons by 1.10231.

3/ May include revisions to prior months' data.

4/ Excludes refractory dolomite.

TABLE 3  
LIME IMPORTED FOR CONSUMPTION IN OCTOBER 1/ 2/

(Metric tons) 3/

| Country of origin | Quicklime | Hydrate | Hydraulic | Total  | Year to date |
|-------------------|-----------|---------|-----------|--------|--------------|
| Canada            | 14,300    | 1,990   | 5,540     | 21,800 | 179,000      |
| Mexico            | --        | 441     | 574       | 1,020  | 44,600       |
| Other             | 4         | --      | --        | 4      | 94           |
| Total             | 14,300    | 2,430   | 6,110     | 22,800 | 224,000      |

1/ Trade statistics are reported for the month previous to that of domestic statistics because of a Department of Commerce effort to improve accuracy by providing an additional 14 days handling.

2/ Data are rounded to three significant digits; may not add to totals shown.

3/ To convert metric tons to short tons, multiply metric tons by 1.10231.

Source: Bureau of the Census.

TABLE 4  
LIME SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/

(Metric tons) 2/

| State or territory                     | November<br>1996 | October<br>1996 | 11 Months<br>1996 3/ | 11 Months<br>1995 |
|--|------------------|-----------------|----------------------|-------------------|
| Alabama                                | 150,000          | 164,000         | 1,630,000            | 1,590,000         |
| Idaho, Oregon, and Washington          | 53,900           | 47,500 r/       | 569,000              | 639,000           |
| Illinois, Indiana, and Iowa            | 134,000          | 134,000         | 1,450,000            | 1,680,000         |
| Kentucky, Tennessee, and West Virginia | 208,000          | 213,000         | 2,300,000            | 2,200,000         |
| Michigan                               | 58,200           | 50,200 r/       | 546,000              | 594,000           |
| Ohio                                   | 193,000          | 192,000         | 1,910,000            | 1,770,000         |
| Pennsylvania                           | 123,000          | 136,000         | 1,420,000            | 1,460,000         |
| Texas                                  | 116,000          | 115,000         | 1,280,000            | 1,300,000         |
| Virginia                               | 65,900           | 68,100          | 695,000              | 679,000           |
| Wisconsin                              | 40,000           | 47,400          | 501,000              | 526,000           |
| Other 4/                               | 451,000          | 460,000         | 5,110,000            | 4,560,000         |
| Total                                  | 1,590,000        | 1,630,000       | 17,400,000           | 17,000,000        |

r/ Revised.

1/ Data are rounded to three significant digits; may not add to totals shown.

2/ To convert metric tons to short tons, multiply metric tons by 1.10231.

3/ May include revisions to prior months' data.

4/ Includes Arizona, Arkansas, California, Colorado, Louisiana, Massachusetts, Minnesota, Missouri, Montana, Nebraska, Nevada, North Dakota, Oklahoma, Puerto Rico, South Dakota, Utah, and Wyoming.

TABLE 5  
LIME IN THE UNITED STATES 1/ 2/

(Thousand metric tons) 3/

| Period    | Consumption 4/ | Sold or used | Imports 5/ | Exports 5/ |
|-----------|----------------|--------------|------------|------------|
| 1995:     |                |              |            |            |
| November  | 1,640          | 1,620        | 23         | 4          |
| December  | 1,590          | 1,570        | 18         | 4          |
| 1996:     |                |              |            |            |
| January   | 1,600          | 1,580        | 28         | 4          |
| February  | 1,520          | 1,510        | 21         | 4          |
| March     | 1,570          | 1,560        | 18         | 9          |
| April     | 1,590          | 1,570        | 15         | 3          |
| May       | 1,600          | 1,590        | 17         | 5          |
| June      | 1,630          | 1,610        | 19         | 4          |
| July      | 1,620          | 1,600        | 24         | 4          |
| August    | 1,600          | 1,580        | 28         | 4          |
| September | 1,610          | 1,580        | 30         | 5          |
| October   | 1,650          | 1,630        | 23         | 4          |
| November  | NA             | 1,590        | NA         | NA         |

NA Not available.

1/ Inventories may be estimated as 60% of monthly consumption.

2/ Data are rounded to three significant digits.

3/ To convert metric tons to short tons, multiply metric tons by 1.10231.

4/ Consumption includes sold or used plus imports minus exports, and includes Puerto Rico.

5/ Source: Bureau of the Census.